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CLAIMS

1. In a computer system having a first and a second software entity, each supporting one or more features, a feature exchange method comprising:

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transferring, from said first to said second software entity, indications of features supported by said first software entity,

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comparing, by said second software entity, said indications of features supported by said first software entity with indications of features supported by said second software entity,

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transferring, from said second software entity to said first software entity, said indications of features supported by said second software entity,

transferring, from said second software entity to said first software entity, an error indication if said first software entity does not support a feature required by said second software entity,

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comparing, by said first software entity, said indications of features supported by said second software entity with said indications of features supported by said first software entity, and

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taking an error action, by said first software entity, if said second software entity does not support a feature required by said first software entity or if said first software entity receives said error indication.

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2. The method of Claim 1 wherein said indications of features supported by said first software entity and said indications of features supported by said second software entity comprise bit masks where a bit thereof represents a feature and wherein

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each said comparing step comprises a bitwise comparison of said bit masks.

1 3. The method of Claim 2 wherein each said bit mask includes a reserved bit for said error indication and wherein said step of transferring said error indication includes

5 setting, by said second software entity, said reserved bit in a bit mask containing said indications of features supported by said second software entity.

4. The method of Claim 2 further comprising  
10 including, in said first software entity, a hardcoded list of said bit masks containing said indications of features supported by said first software entity, and

including, in said second software entity, a  
15 hardcoded list of said bit masks containing said indications of features supported by said second software entity.

5. The method of Claim 4 wherein said features  
20 supported by said first software entity comprise required features of said first software entity and said features supported by said second software entity comprise required features of said second software entity.

25 6. The method of Claim 5 wherein one of said first and second software entities supports an optional feature, said method further comprising

including in said hardcoded list associated with  
said one software entity an indication of said optional  
30 feature and an indication that said optional feature is optional.

7. The method of Claim 6 wherein said hardcoded  
lists include indications that said required features  
35 are required.

1 8. The method of Claim 1 wherein said first software  
entity comprises an operating system of said computer  
system and said second software entity comprises a  
microcoded special purpose processor of said computer  
5 system.

9. The method of Claim 4 wherein each said hardcoded  
list comprises a plurality of said bit masks each said  
bit mask being identified by a word number and wherein  
10 said step of transferring from said first software  
entity comprises transferring, from said first software  
entity to said second software entity, a particular bit  
mask with a predetermined word number from said list  
associated with said first software entity, and  
15 said first step of transferring from said second  
software entity comprises transferring, from said second  
software entity to said first software entity, a bit  
mask corresponding to said particular bit mask having  
said predetermined word number from said list associated  
20 with said second software entity.

10. The method of Claim 9 wherein a new required  
feature is introduced in said first or second software  
entity and wherein said method further includes  
25 setting a bit in an associated bit mask  
corresponding to said new required feature.

11. The method of Claim 4 further including  
maintaining, by at least one of said first and  
30 second software entities, a list of indications of  
features supported by both said first and second software  
entities.

1 12. In a computer system having a first and a second software entity, each supporting one or more features, feature exchange apparatus comprising:

means for transferring, from said first to said  
5 second software entity, indications of features supported by said first software entity,

means for comparing, by said second software entity, said indications of features supported by said first software entity with indications of features  
10 supported by said second software entity,

means for transferring, from said second software entity to said first software entity, said indications of features supported by said second software entity,

said means for transferring from said second  
15 software entity to said first software entity including means for transferring an error indication if said first software entity does not support a feature required by said second software entity, and

means for comparing, by said first software  
20 entity, said indications of features supported by said second software entity with said indications of features supported by said first software entity,

said first software entity taking an error action if said second software entity does not support a feature  
25 required by said first software entity or if said first software entity receives said error indication.

13. The apparatus of Claim 12 wherein

said indications of features supported by said  
30 first software entity and said indications of features supported by said second software entity comprise bit masks where a bit thereof represents a feature, and

each said comparing means is operative to perform a bitwise comparison of said bit masks.

1 14. The apparatus of Claim 13 wherein each said bit  
mask includes a reserved bit for said error indication,  
said means for transferring said error indication  
includes setting, by said second software entity, said  
5 reserved bit in a bit mask containing said indications  
of features supported by said second software entity.

15. The apparatus of Claim 13 further comprising  
a hardcoded list, included in said first software  
10 entity, of said bit masks containing said indications  
of features supported by said first software entity,  
and  
a hardcoded list, included in said second software  
entity, of said bit masks containing said indications  
15 of features supported by said second software entity.

16. The apparatus of Claim 15 wherein said features  
supported by said first software entity comprise required  
features of said first software entity and said features  
20 supported by said second software entity comprise required  
features of said second software entity.

17. The apparatus of Claim 16 wherein one of said  
first and second software entities supports an optional  
25 feature, said hardcoded list associated with said one  
software entity including an indication of said optional  
feature and an indication that said optional feature  
is optional.

30 18. The apparatus of Claim 17 wherein said hardcoded  
lists include indications that said required features  
are required.

1 19. The apparatus of Claim 1 wherein said first  
software entity comprises an operating system of said  
computer system and said second software entity comprises  
a microcoded special purpose processor of said computer  
5 system.

20. The apparatus of Claim 15 wherein each said  
hardcoded list comprises a plurality of said bit masks,  
each said bit mask being identified by a word number,  
10 said means for transferring from said first  
software entity being operative for transferring, from  
said first software entity to said second software entity,  
a particular bit mask with a predetermined word number  
from said list associated with said first software entity,  
15 said means for transferring from said second  
software entity being operative for transferring, from  
said second software entity to said first software entity,  
a bit mask corresponding to said particular bit mask  
having said predetermined word number from said list  
20 associated with said second software entity.

21. The apparatus of Claim 20 wherein a new required  
feature is introduced in one of said first or second  
software entities, said one software entity being  
25 operative for setting a bit in an associated bit mask  
corresponding to said new required feature.

22. The apparatus of Claim 15 further including a  
list of indications of features supported by both said  
30 first and second software entities maintained by at least  
one of said first and second software entities.

23. The apparatus of Claim 12 wherein said indications  
of features supported by said first software entity and  
35 said indications of features supported by said second  
software entity comprise feature indication storage  
arrangements.

- 1 24. The apparatus of Claim 23 wherein said feature  
indication storage arrangements comprise bit masks where  
a bit thereof represents a feature, and  
each said comparing means is operative to perform  
5 a bitwise comparison of said bit masks.

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